

Application No. 10/634,474
Docket No. 1999U026.US-CON2
Reply to Office Action Dated March 12, 2004

Amendments to the Specification

[0041] The Group 15 containing metal compounds of the invention are prepared by methods known in the art, such as those disclosed in EP 0 893 454 A1, U.S. Patent No. 5,889,128 and the references cited in U.S. Patent No. 5,889,128 which are all herein incorporated by reference. U.S. Patent No. 6,271,325 Application Serial Number 09/312,878, filed May 17, 1999, discloses a gas or slurry phase polymerization process using a supported bisamide catalyst, which is also incorporated herein by reference.

[0061] In one embodiment, the bulky ligand metallocene-type catalyst compounds are those complexes known as transition metal catalysts based on bidentate ligands containing pyridine or quinoline moieties, such as those described in U.S. Patent No. 6,103,657 Application Serial No. 09/103,620 filed June 23, 1998, which is herein incorporated by reference. In another embodiment, the bulky ligand metallocene-type catalyst compounds are those described in PCT publications WO 99/01481 and WO 98/42664, which are fully incorporated herein by reference.

[0074] It is also contemplated that any one of the bulky ligand metallocene-type catalyst compounds of the invention have at least one fluoride or fluorine containing leaving group as described in U.S. Patent No. 6,632,904 Application Serial No. 09/191,916 filed November 13, 1998.

[0127] The catalyst and/or the activator may be placed on, deposited on, contacted with, incorporated within, adsorbed, or absorbed in a support. Typically the support is any of the solid, porous supports, including microporous supports. Typical support materials include talc; inorganic oxides such as silica, magnesium chloride, alumina, silica-alumina; polymeric supports such as polyethylene, polypropylene, polystyrene, cross-linked polystyrene; and the like. Preferably the support is used in finely divided form. Prior to use the support is preferably partially or completely dehydrated. The dehydration may be done physically by calcining or by chemically

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converting all or part of the active hydroxyls. For more information on how to support catalysts, see U.S. Patent No. 4,808,561 which discloses how to support a metallocene catalyst system. In addition, there are various other techniques of supporting catalysts as are well known in the art. Methods for supporting the Group 15 metal compound of the invention are described in U.S. Patent No. 6,271,325 Application Serial Number 09/312,878, filed May 17, 1999 which is herein incorporated by reference.